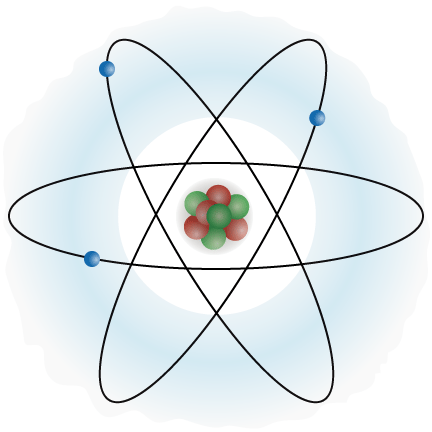
***Atomic Structure***

By the End of this Unit…

|  |  |
| --- | --- |
| **Know** | **Understand & Be able to…** |
| Vocabulary | Concepts to be covered in your notes |
| Nucleus  Proton  Electron  Neutron  Atomic number  Mass number  Isotopes  Energy levels  Electron cloud  Orbital  Electron configuration  Ground state  1 VC Activity due at the end of the Unit | Section 1: Studying Atoms   * Describe ancient Greek models of matter * List the main points of Dalton’s atomic theory * Describe evidence for Dalton’s theory of the existence of atoms * Explain Thompson’s and Rutherford’s contribution to atomic models   Section 2: Structure of the atom   * Identify three subatomic particles and compare their properties * Distinguish the atomic number of an element * Distinguish the mass number of an element * Use the atomic number and mass number to describe the atoms structure   Section 3: Modern Atomic Theory   * Describe Bohr’s model of the atom and the evidence for energy levels * Explain how the electron cloud model represents the behavior and location s of electrons in atoms * Distinguish the ground state from excited states of an atom based on electron configurations |